ORDER NO. TD98060613C1

A1

Service Manual

Radio Cassette

RQ-SW35V

Stereo Radio Cassette Player

Colour

(Y).....Yellow Type
(A).....Blue Type

Area

Suffix for. Model No.	Areas	Colour
[P]	U.S.A.	(Y) (A)
[PC]	Canada.	(Y) (A)

MECHANISM SERIES: AR66

■SPECIFICATIONS

General:

Power Requirements:	Battery; DC 1.5V (One "AA" size, R6/LR6 battery)
Power Output:	16mW (8mW x2)...RMS(max.)
Output:	Headphone; 32Ω, ϕ 3.5
Dimensions:	90.9(W)x117.7(H)x37.4mm (3 9/16"x4 5/8"x1 1/2")
Weight:	253g (8.9 oz) Without battery

Tape Deck Section:

Frequency Response:	40~16,000Hz (Normal) (-6dB)
Tape Speed:	4.8cm/s (1 7/8 ips)
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track, 2-channel stereo playback

Radio Section:

Radio Frequency Range:	FM; 87.9~107.9MHz (0.2MHz steps) 87.5~108.0MHz (0.1MHz/0.05MHz steps)
	AM; 520~1710kHz (10kHz steps) 522~1629kHz (9kHz steps)
Intermediate Frequency:	FM; 10.7MHz AM; 450kHz
	FM; 5.01 μV/0.1 mW output (-3dB Limit, Sens)
	AM; 1000 μV/mV/0.1 mW output

Notes:

1.Weights and dimensions shown are approximate.

2.Design and specifications are subject to change without notice.

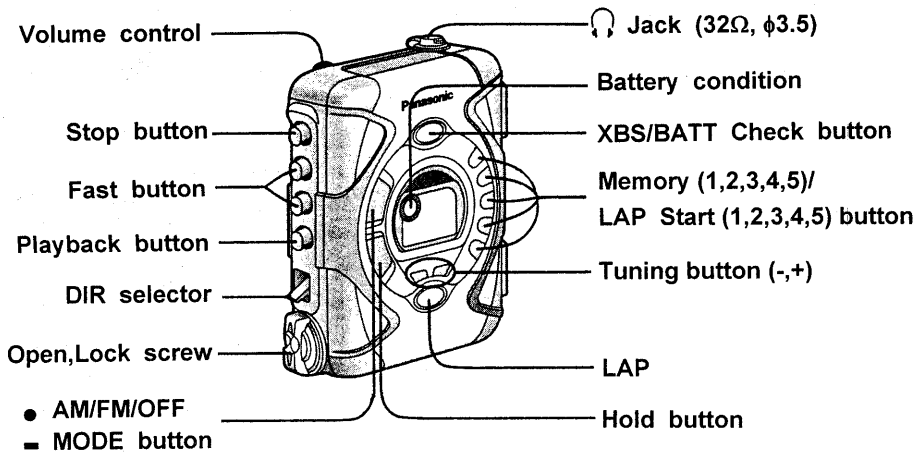
⚠ WARNING

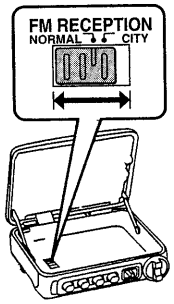
This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

Contents

■ LOCATION OF CONTROLS





BATTERY SERVICE LIFE

UM-3(AA-size) Batteries
Approx. 24 hours of playback (EIAJ) with volume set at 3/4 position
Approx. 28 hours of Radio (EIAJ) with volume set at 3/4 position
The above battery service life is measured according to the conditions set forth by EIAJ (Electronic industries Association of japan). As the battery service life varies with the method of operation and envirommental conditions, use these values as reference.

■ DISASSEMBLY INSTRUCTIONS

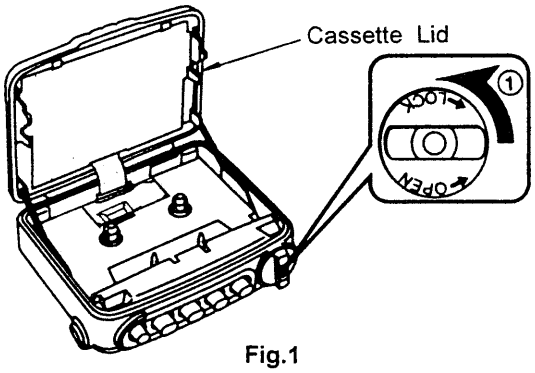


Fig.1

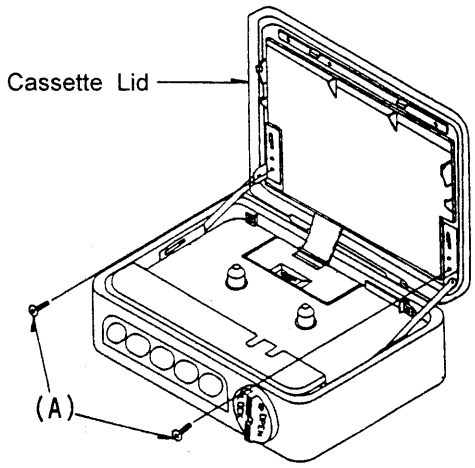


Fig.2

■ Remove of the cassette Lid

- Open the cassette Lid in the direction of arrow ①. (See Fig.1).
- Remove the screws (A) X 2 (See Fig.2).
- Remove the screws (B) X 2 (See Fig.3).

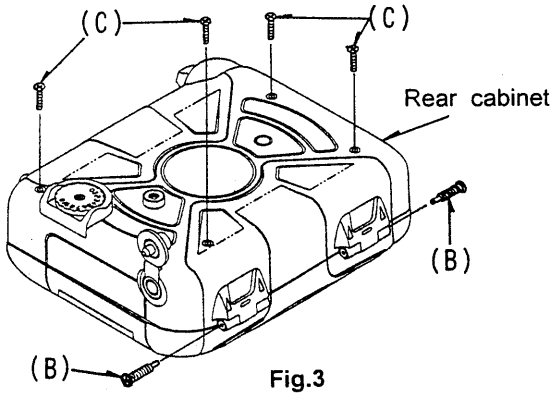


Fig.3

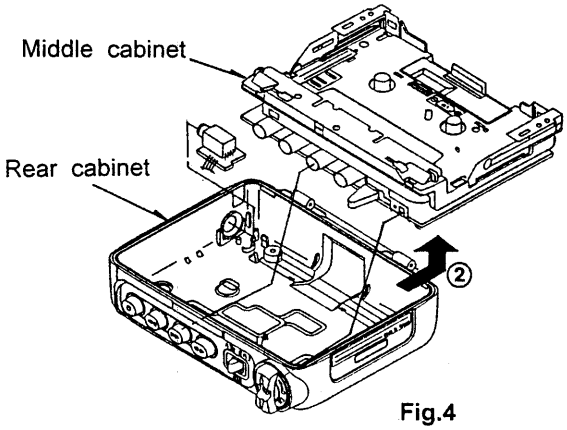


Fig.4

■ Removal of the Rear Cabinet

- Remove the screws (C) (2 X 10)X 4 (See Fig.3).
- Remove the rear cabinet in the direction of arrow ②. (See Fig.4).

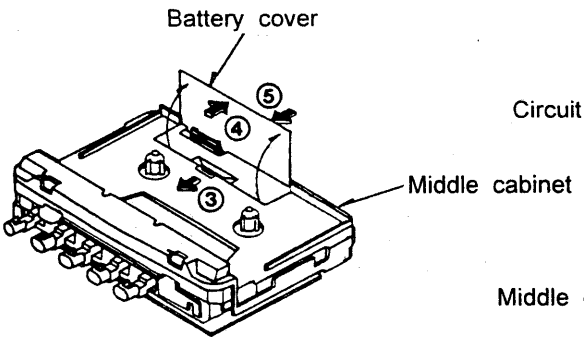


Fig.5

■ Removal of the Battery Cover.

- Open the battery cover in the direction of arrow ③. (See Fig.5).
- Remove the battery cover in the direction of arrow arrow ④ and ⑤. (See Fig.5).

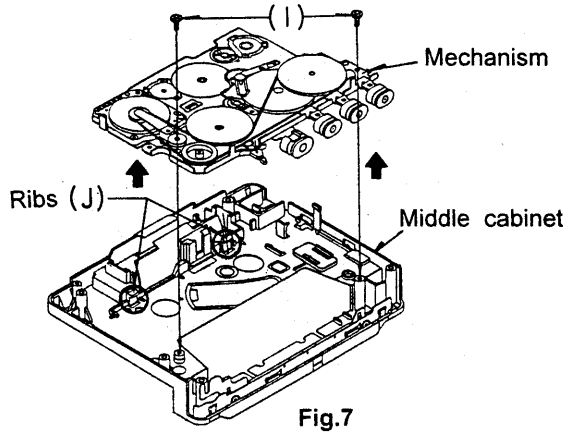


Fig.7

■ Removal of the Mechanism and Middle Cabinte (See Fig.7).

- Remove the deck screws (I) (2X6)mm x 2.
- Remove the Ribs (J).
- Remove the mechanism and middle cabinet.

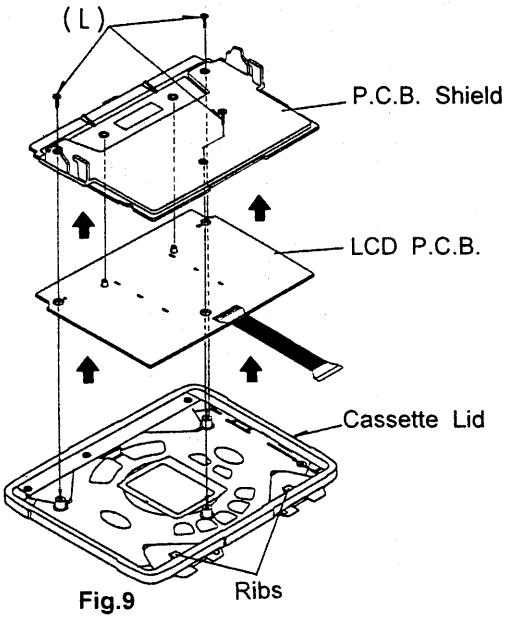


Fig.9

■ Removal of the P.C.B. Shield and LCD P.C.B. (See Fig.9).

- Remove the screws (L) (1.4X4.5)mm x 3.
- Remove the PCB Shield and LCD P.C.B.

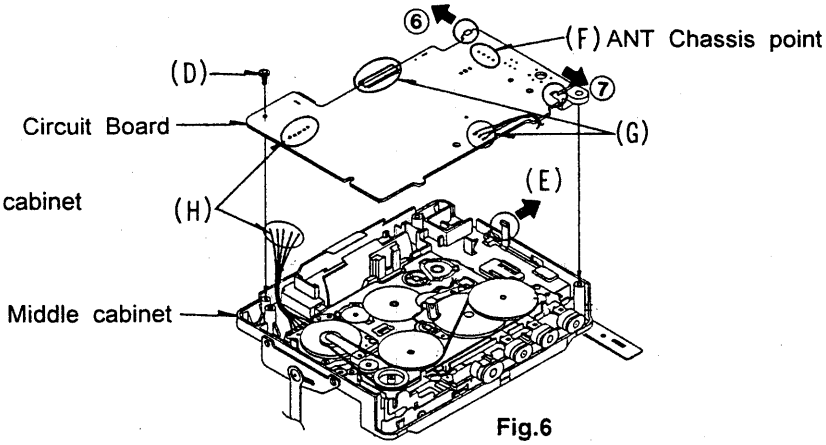


Fig.6

■ Removal of ANT Chassis and Circuit Board (See Fig.6).

- Remove the screw (D) (1.4X4.5)mm x 1.
- Remove the Rib (E).
- Disconnect the solder (F).
- Remove the ANT chassis in the direction of arrow ⑥& ⑦.
- Remove the solder (G). (H). from flexible P.C.B.

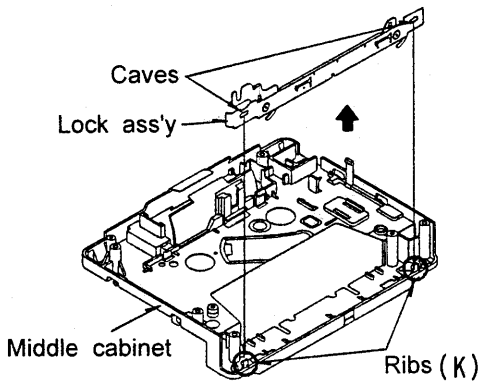


Fig.8

■ Removal of the Lock ass'y (See Fig.8).

- Remove the Ribs (K).

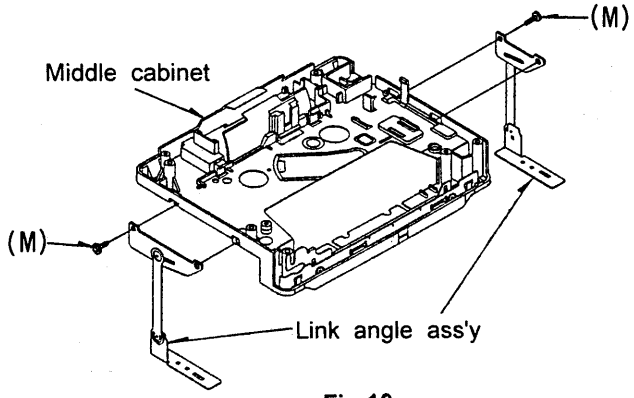


Fig.10

■ Removal of the link angle ass'y (See Fig.10).

- Remove the screws (M) (1.4 X 2) X 2.

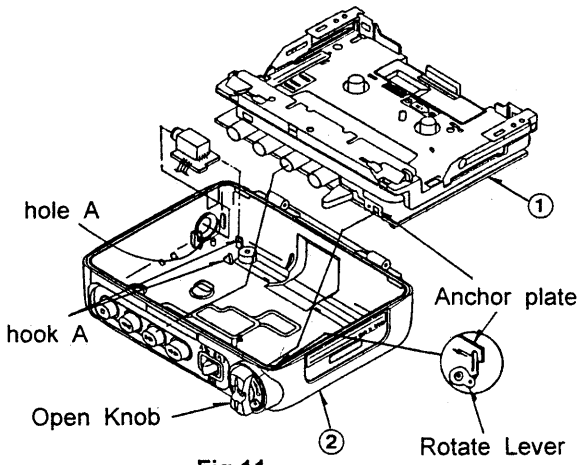


Fig.11

■ Notice for assembling the mid-cabinet (See Fig.11).

- In advance insert the earphone jack into hole A, and then press the earphone PCB to hook A to fix it.
- Slant ① about 45° and put it into ② , then fix these five deck buttons onto ② .

Notes:

- When put the mid-cover, the H.P wire must be folded and be placed under the main PCB flattly.
- Before put the mid-cover, the anchor plate must be pushed to the right side.
- The open knob must be on open condition.

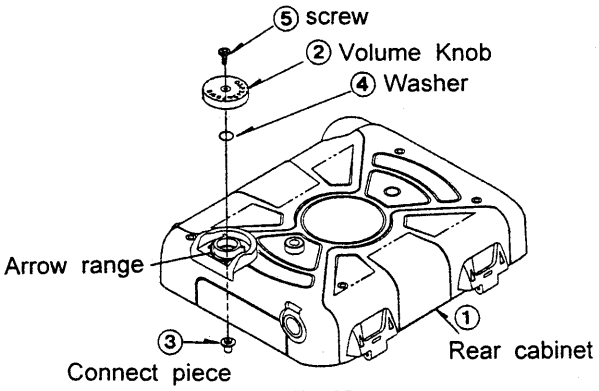


Fig.12

■ Notice for assembling the Volume Knob (See Fig.12).

1.Put ④ on ① and then lay grease on it, and assembled ③ and ② ,finally tighten them with screw ⑤ .

Notes:

1.The ② has a tab inside, it should be placed inside the arrow range.
2.The washer ④ should be placed to prevent water penetration.
3.Before assembling ② and ③ , the Volume VR must be at minimum in advance.

■ MEASUREMENTS AND ADJUSTMENTS

● ALIGNMENT POINTS

Please refer to the Circuit Board and Wiring Connection Diagram to locate test points.

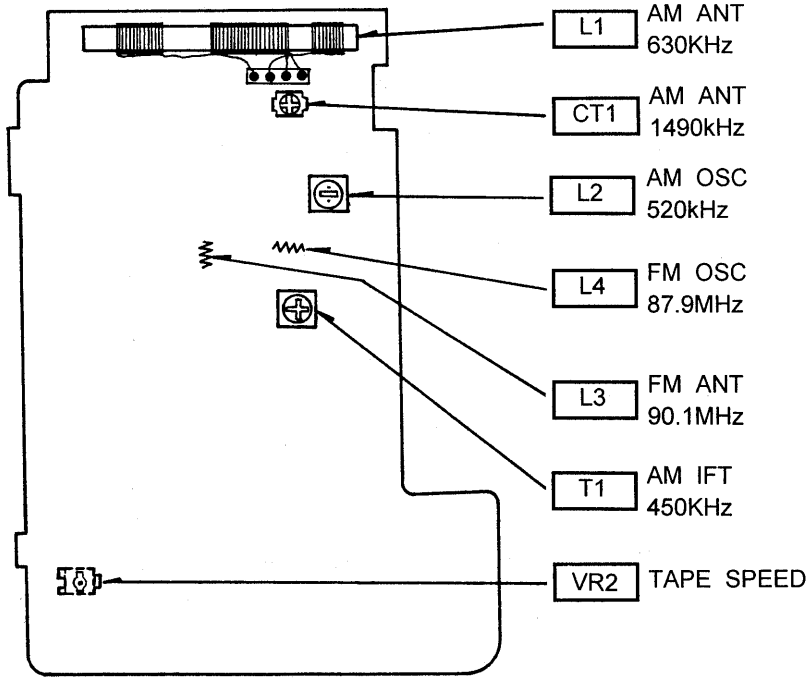
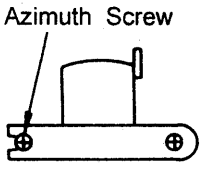
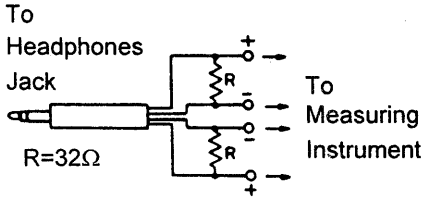


Fig.1



Fg.2



Fg.3

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1.Set volume control to maximum.
2.Set band selector switch to AM or FM.
3.Set Function selector switch to radio or tape.
4.Set Tape Selector Switch to normal.
5.Set power source voltage to 1.5V DC
6.Output of signal generator should not be higher than necessary to obtain an output reading.
7.Make sure heads are clean.
8.Make sure capstan and pinch roller are clean.

• TUNER SECTION

AM ADJUSTMET

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
		CONNECTIONS	FREQUENCY				
				AM-IF ADJUSTMENT			
(1)	AM	Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450kHz 30% Mod. at 400Hz	Point of non-interference.(on/ about 600kHz)	Headphones Jack (32Ω) (Refer to Fig.3)	T1 (AM IFT)	Adjust for maximum output.
				AM-RF ADJUSTMENT			
(2)	AM	〃	520kHz	Tuning capacitor fully closed.	〃	L2 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	630kHz	Tune to signal.	〃	(*1) L1 (AM ANT Coil)	Adjust for maximum output.Adjust L1 by moving coil bobbin along ferrite core.
(4)	AM	〃	1490kHz	〃	〃	CT1 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)～(4)
	(＊1) Cement antenna bobbin with wax after completing adjustmen.						

FM ADJUSTMENT

	BAND	SIGNAL GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
		CONNECTIONS	FREQUENCY				
				FM-RF ADJUSTMENT			
(1)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2	87.9MHz	Variable capacitor fully closed.	Headphones Jack (32Ω) (Refer to Fig.3)	L4 (FM OSC Coil)	(*2) Adjust for maximum output.
(2)	FM		90.1MHz	Tune to signal.	〃	L3 (FM ANT Coil)	〃
	(*2) Three output responses will be present; proper tuning is the center frequency.						

• TAPE DECK SECTION

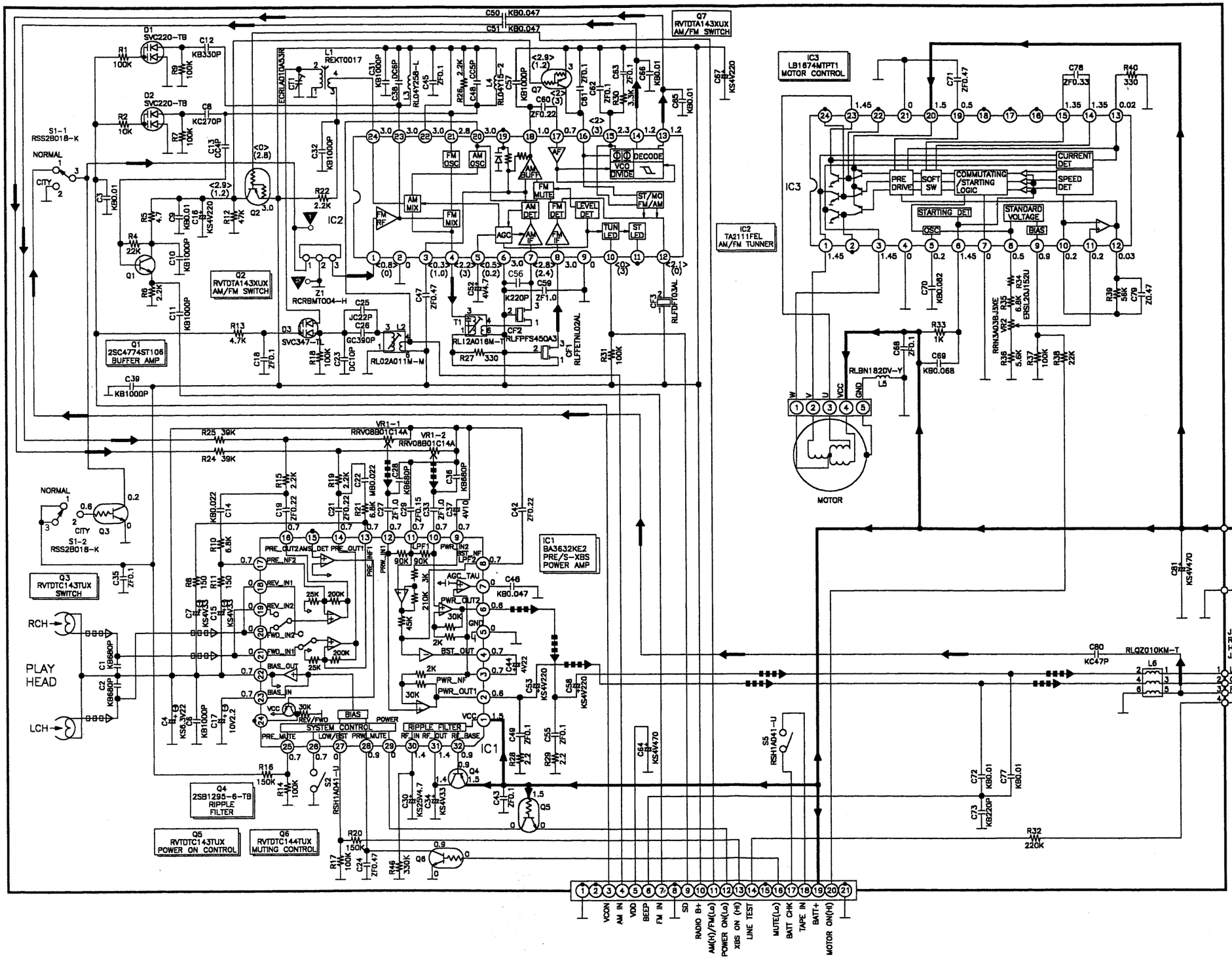
ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT	PROCEDURE
(A) Azimuth	QZZCFM (8kHz,-20dB)	Headphones Jack (32Ω) Fabricate the plug as shown in Fig.3 and then connect the lead wires of the plug to the measuring instrument.	Azimuth adjustment screw (Refer to Fig.2)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth allgnment with both channels equal. Then screw-lock the adjustment in place.
(B) Tape speed	QZZCWAT (3kHz,-10dB)		VR2 (Refer to Fig.1)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. 3000±60Hz (Forward & Reverse)

■TERMINAL FUNCTION OF IC'S

● **IC202 (LC72342-9403):SYSTEM CONTROL & LCD DRIVE**

Terminal No.	Terminal Name	I/O	Function
1	X IN	O	Intput terminal used for connectinz a guartg oscillator
2	TEST 2	I	Test terminal
3	L TEST	I	Test terminal
4	TAPE IN	I	Data Signal input terminal
5,6	PA 1~PA 0	I	Terminal for key return signal input
7~10	PB 3~PB 0	O	Key return signal source output terminal for momentary switch on the key matrix
11	SD	I	Input the SD Signal terminal
12	POWER ON	O	Output terminal for power ON control signal
13	AM/FM	O	Band select output terminal
14	XBS ON	O	Output the XBS ON control terminal
15	VMSS ON	O	Output the VMSS ON control terminal
16	RADIO ON	O	Radio ON outputs the power out terminal
17	TAPE ON	O	Tape ON outputs the power out terminal
18	Vcc-CHK	I	Battery voltage detect terminal
19	MOTE	O	Not connected
20	BUZR	O	Outputs the buzzer out terminal
21	BATT IN	I	Data Signal input terminal
22	ADI 1	I	Key input terminal
23	ADI 0	I	Battery voltage detect terminal
24	Vss	—	For ground connection
25	HOLD	I	Data signal input terminal (Hold detect terminal)
26	VMSS IN	I	VMSS Signal input terminal
27	MUTE	O	Muting Signal Output terminal
28	MODEL	I	Moue set terminal
29~44	LCD (S16~S1)	O	Outputs terminals for LCD segment signals
45~48	COM 4~COM 1	O	Outputs terminals for LCD common signals
49~52	DBR 4~DBR 1	—	Condensev external terminal
53	REST	—	Rest terminal
54	NC	I	Not connected
55	VDD	—	Power terminal
56	FM IN	I	Inputs the local oscillator VCO (10~30 MHz)
57	AM IN	I	Inputs the local oscillator VCO (0.5~40 MHz)
58	VSS	—	For ground connection
59	EO	O	PLL error output terminal
60	A IN	O	L.F.P OIN terminal
61	A OUT	O	L.F.P out terminal
62	A GND	O	For ground connection
63	TEST 1	I	For ground connection
64	X OUT	I	Output terminal used for connecting a guartz oscillator

■ SCHEMATIC DIAGRAM (MAIN CIRCUIT)



■ SCHEMATIC DIAGR

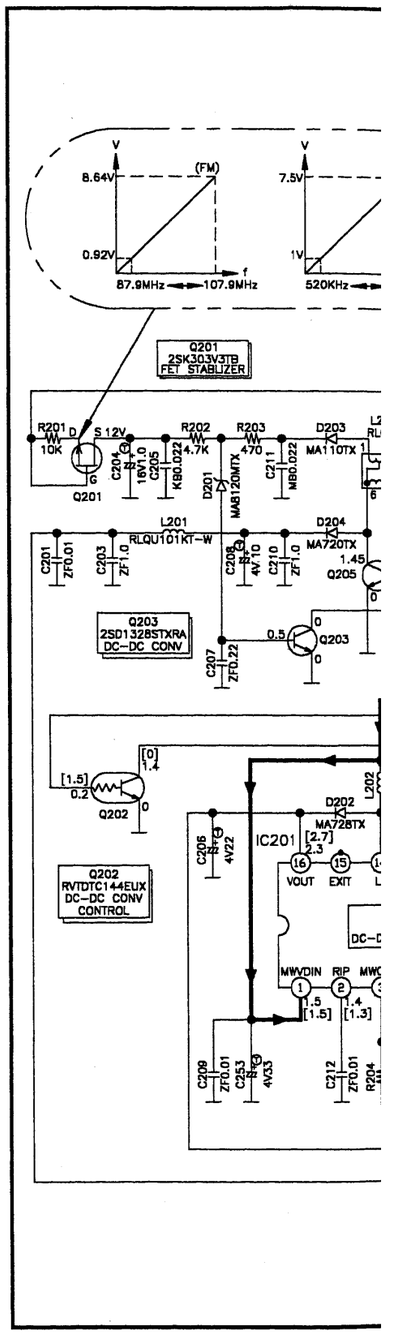
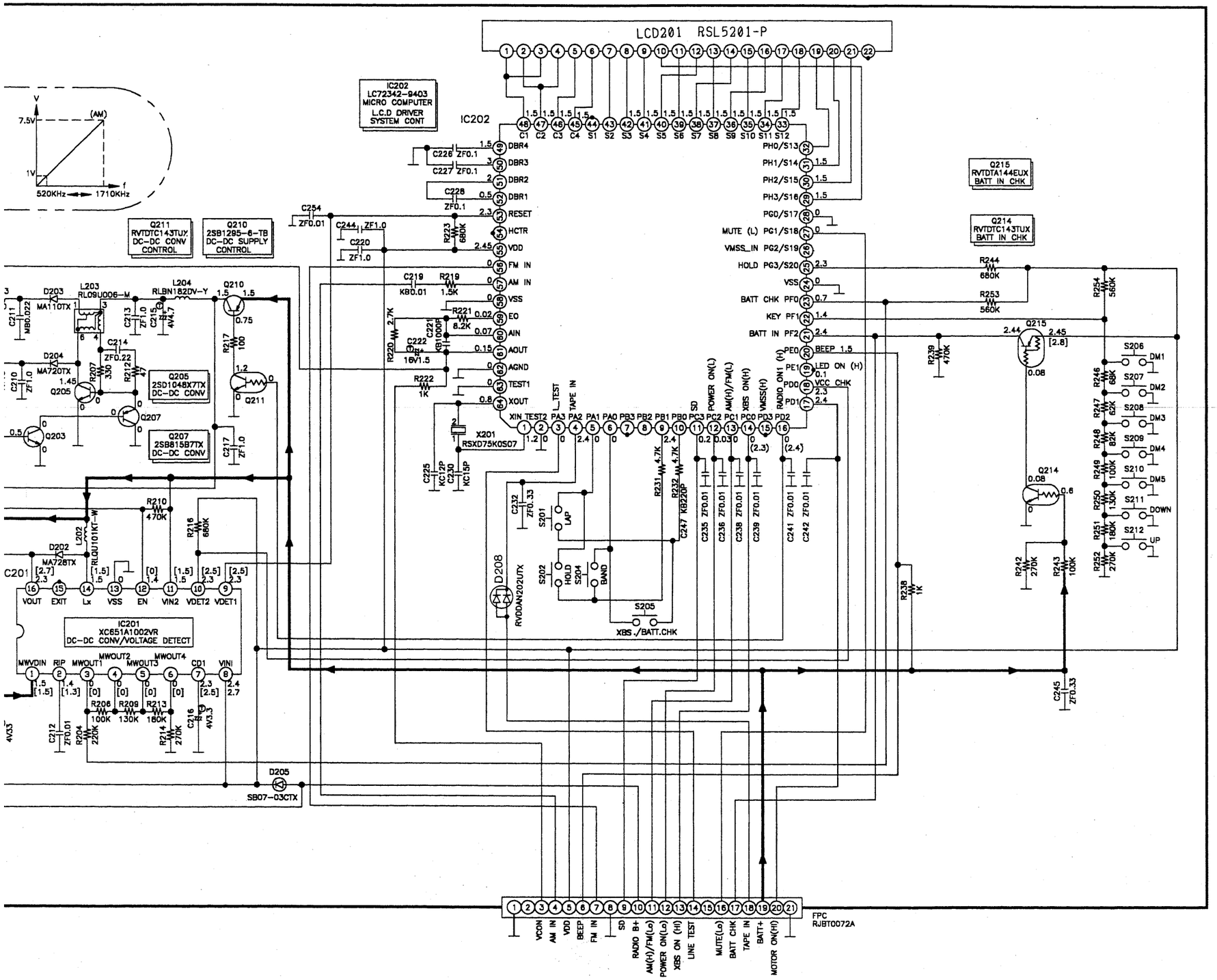


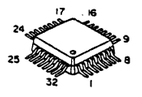
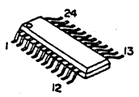
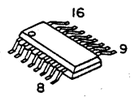
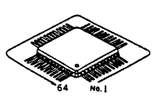
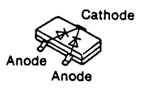
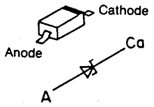
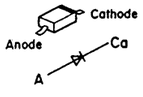
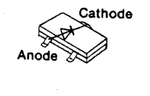
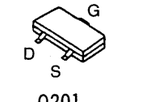
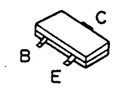
DIAGRAM (LCD CIRCUIT)



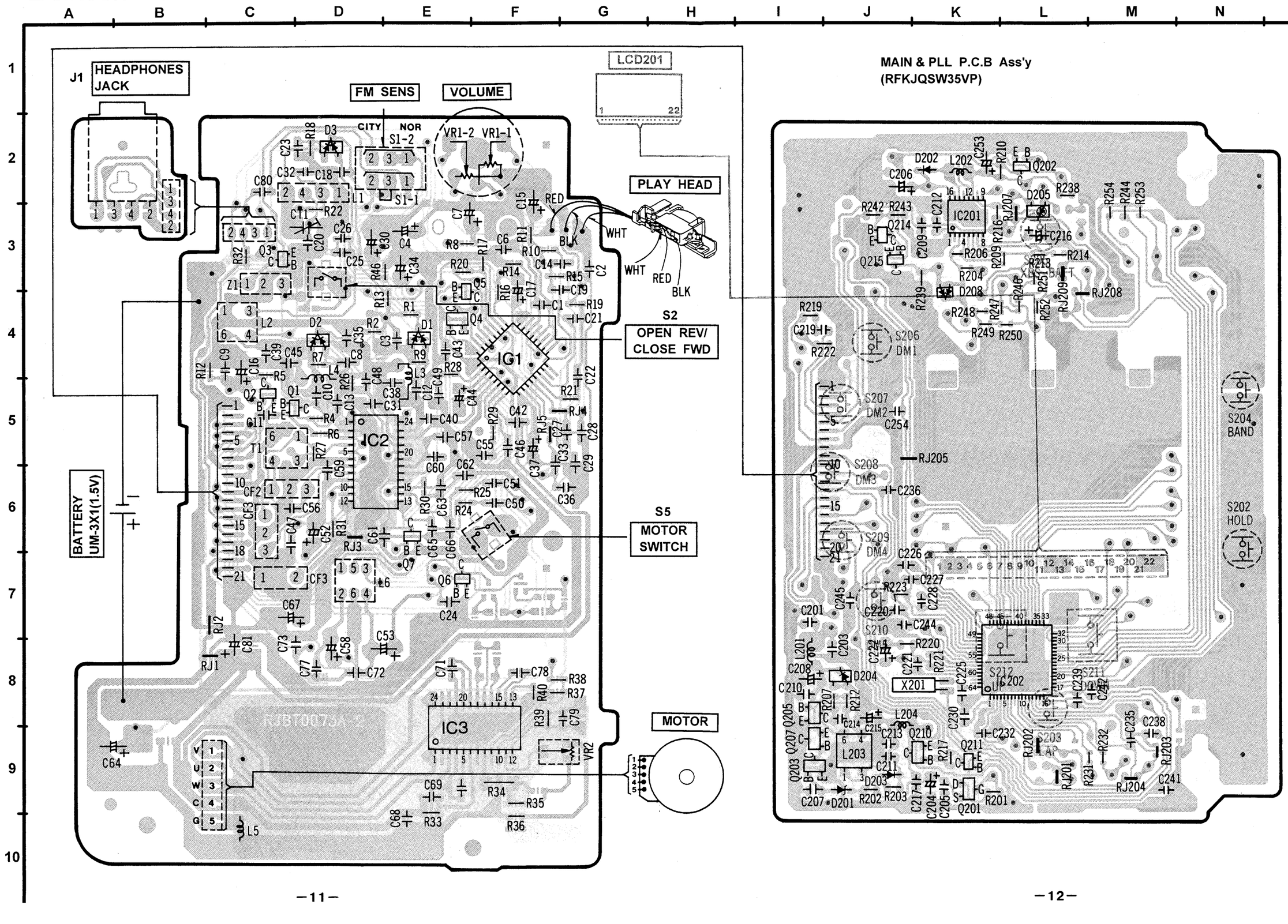
Notes:

- S1-1,1-2: FM reception switch in "NOR" position. (1...NOR, 2...CITY).
- S2: Open/REV,Close/FWD switch in "Open/REV" position.
- S5: Motor switch in "OFF" position.
- S201: LAP switch in "OFF" position
- S202: Hold switch in "OFF" position
- S204: Radio/Band/Mode select (•AM/FM/OFF ▬MODE) switch in "OFF" position. switch in "OFF" position.
- S205: XBS/BATT CHK switch in "OFF" position.
- S206~S210: Direct tuning switchs. [S206:DM1, S207:DM2, S208:DM3, S209:DM4, S210:DM5]
- S211: Tuning down switch in "OFF" position.
- S212: Tuning up switch in "OFF" position.
- VR1-1: Volume control VR (Lch).
- VR1-2: Volume control VR (Rch).
- VR2: Tape speed adjustment VR.
- The mark (▼) shows test point e.g. ▼ =test point 1.
- DC voltage measurement are taken witch electronics.
- Voltmeter from negative terminal of battery.
  〈 〉...FM position,( )...AM position.
  [ ]...FM & AM position, No mark.....Playback position.
- Battery current: Volume minimum output (Radio).....70mA
  Volume minimum output (Tape).....80mA
  Volume Maximum output (Radio).....85mA
  Volume Maximum output (Tape).....110mA
  (Radio, 74dB 30% Modulation.
  Tape, 315Hz 0dB tape playback.)
- ▬▶ + B Voltage Line.
  ▬▷▬ Playback Signal.
  ▬▶ FM Signal.
  ▬▷▬ Playback and Radio Signal.
- **This schematic diagram may be modified at any time with the development of new technology.**

■TYPE ILLUSTRATION OF IC'S, TRANSISTORS AND DIODES

 IC1	 IC2,3.	 IC201	 IC202
 D1,2,3,208.	 D201	 D202,203.	 D204,205.
 Q201	 Q1~7,202, 202,203,205, 207,210,211, 212,214,215.		

■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



■ ELECTRONIC PART LOCATION

IC1	4F	CT1	3D	R24	6E	R246	4L	C37	5F	C205	9K
IC2	5D	CF1	6C	R25	6F	R247	4K	C38	5E	C206	2J
IC3	8E	CF2	6C	R26	5D	R248	4K	C39	4C	C207	9I
IC201	3K	CF3	7D	R27	5D	R249	4K	C40	5E	C208	8I
IC202	8L	X201	8K	R28	4E	R250	4L	C42	5F	C209	3K
Q1	5D	LCD201	3H	R29	5F	R251	3L	C43	4E	C210	8I
Q2	5C	Z1	3C	R30	6E	R252	4L	C44	5E	C211	9J
Q3	3C	S1	2E	R31	6D	R253	2M	C45	4C	C212	3K
Q4	4E	S2	4H	R32	3C	R254	2M	C46	5F	C213	9J
Q5	3E	S5	6H	R33	10E	C1	4F	C47	6C	C214	8J
Q6	7E	S202	7N	R34	9F	C2	3G	C48	5D	C215	8J
Q7	6E	S203	9L	R35	9F	C3	4E	C49	5E	C216	3L
Q201	9K	S204	5N	R36	10F	C4	3E	C50	6F	C217	9K
Q202	2L	S205	3L	R37	8G	C6	3F	C51	6F	C219	4I
Q203	9I	S206	4J	R38	8G	C7	3F	C52	6D	C220	7J
Q205	8I	S207	5J	R39	8F	C8	4D	C53	8E	C221	8K
Q207	9I	S208	6J	R40	8F	C9	4C	C55	5F	C222	8J
Q210	9K	S209	7J	R46	3E	C10	5D	C56	6D	C225	8K
Q211	9K	S210	8J	R201	9K	C11	5C	C57	5E	C226	7J
Q214	3J	S211	8M	R202	9J	C12	5E	C58	8D	C227	7J
Q215	3J	S212	8L	R203	9J	C13	5D	C59	6D	C228	7K
D1	4E	J1	2B	R204	3K	C14	3G	C60	5E	C230	8K
D2	4D	R1	4E	R206	3K	C15	2F	C61	6E	C232	9K
D3	2D	R2	4D	R207	8J	C16	4C	C62	6E	C235	9M
D201	9J	R4	5D	R209	3L	C17	3F	C63	6E	C236	6J
D202	2K	R5	4C	R210	2K	C18	2D	C64	9A	C238	9M
D203	9J	R6	5D	R212	8J	C19	3G	C65	6E	C239	8L
D204	8J	R7	4D	R213	3L	C21	4G	C66	6E	C241	9M
D205	3L	R8	3E	R214	3L	C22	4G	C67	6D	C242	8M
D208	4K	R9	4E	R216	3K	C23	2D	C68	10E	C244	7J
L1	2D	R10	3F	R217	9K	C24	7E	C69	9E	C245	7J
L2	4C	R11	3F	R219	4I	C25	3D	C70	9E	C253	2K
L3	4E	R12	4C	R220	8K	C26	3D	C71	8E	C254	5J
L4	4D	R13	4E	R221	8K	C27	5G	C72	8D		
L5	10C	R14	3F	R222	4I	C28	5G	C73	8D		
L6	7D	R15	3G	R223	7J	C29	6G	C77	8D		
L201	8I	R16	3F	R231	9L	C30	3D	C78	8F		
L202	2K	R17	3F	R232	9L	C31	5E	C79	8G		
L203	9J	R18	2D	R238	2L	C32	2D	C80	2C		
L204	8J	R19	4G	R239	3K	C33	6G	C81	8C		
T1	5C	R20	3E	R242	3J	C34	3E	C201	7I		
VR1	2F	R21	5G	R243	3J	C35	4D	C203	8J		
VR2	9G	R22	3D	R244	2M	C36	6G	C204	9K		

Notes:

- In this printed circuit board diagram, the parts and foil patterns on the board facing toward you are printed in black.
  The opposite side is printed in blue.
- The "●" mark denotes the connection points of double-faced foil patterns (through holes) on both side of the printed circuit board.
- This printed circuit board diagram may be modified at any time with the development of new technology.
- **his circuit board diagram may be modified at any time with the development of new technology.**
- ——— : **RESISTOR**
- ▬▬ : **JUMPER**

■ REPLACEMENT PARTS LIST (ELECTRICAL)

Notes:

1. (T) Indicates parts that are supplied **TAMACO**
2. (M) Indicates parts that are supplied **MESA**

Ref No.	Parts No.	Parts Name & Description	Values & Remarks
INTEGRATED CIRCUITS, TRANSISTORS AND DIODES			
IC1	**BA3632KE2**	I.C.PRE-Power	(T)
IC2	**TA2111FEL**	I.C.TUNER	(T)
IC3	**LB1674MTPT1**	I.C.MOTOR DRIVE	(T)
IC201	**XC651A1002VR**	I.C.MULTI	(T)
IC202	**LC72342-9403**	I.C.MICON CPU	(T)
Q1	**2SC4774ST106**	Transistor	(T)
Q2,7,212	**RVTDTA143XUX**	Transistor	(T)
Q3,5,211 ,214	**RVTDTC143TUX**	Transistor	(T)
Q4,210	**2SB1295-6-TB**	Transistor	(T)
Q6	**RVTDTC144TUX**	Transistor	(T)
Q201	**2SK303V3TB**	F.E.T.	(T)
Q202	**RVTDTC144EUX**	Transistor	(T)
Q203	**2SD1328STXRA**	Transistor	(T)
Q205	**2SD1048X7TX**	Transistor	(T)
Q207	**2SB815B7TX**	Transistor	(T)
Q215	**RVTDTA144EUX**	Transistor	(T)
D1,2	**SVC220-TB**	Diode	(T)
D3	**SVC347-TL**	Diode	(T)
D201	**MA8120MTX**	Diode	(T)
D202	**MA728TX**	Diode	(T)
D203	**MA110TX**	Diode	(T)
D204	**MA720TX**	Diode	(T)
D205	**SB07-03CTX**	Diode	(T)
D208	**RVDDAN202UTX**	Diode	(T)
COILS AND TRANSFORMERS			
L1	**REKT0017**	Bar Antenna Ass'y (Withe Antenna Chassis)	(T)
L2	**RLO2A011M-M**	Oscillator Coil (AM)	(T)
L3	**RLO4Y258-L**	Antenna Coil (FM)	(T)
L4	**RLO4Y15-2**	Antenna Coil (FM)	(T)
L5	**RLBN182DV-Y**	Chip Coil	(T)
L6	**RLQZ010KM-T**	Choke Coil (RF)	(T)
L201,202	**RLQU101KT-W**	Chip Coil	(T)
L203	**RLO9U006-M**	D-D Conv Coil	(T)
L204	**RLBN182DV-Y**	Chip Coil	(T)
T1	**RLI2A016M-T**	I.F.T. (MW)	(T)
VARIABLE RESISTORS			
VR1	**RRV08B01C14A**	V.R. Volume	(T)
VR2	**RRN3A03BJ3XE**	V.R. Tape Speed	(T)
TRIMMER CAPACITOR			
CT1	**ECRLA010A53R**	Trimmer	(T)
CERAMIC FILTERS			
CF1	**RLFFETNL02AL**	Ceramic Filter	(T)
CF2	**RLFPFS450A3**	Ceramic Filter	(T)
CF3	**RLFDFT03AL**	Ceramic Filter	(T)
CRYSTAL			
X201	**RSXD75K0S07**	Crystal	(T)
LCD			
LCD201	**RSL5201-P**	L.C.D.	(T)
COMPONENT COMINATION			
Z1	**RCRBMT004-H**	Band Pass Filter	(T)
SWITCHES			
S1	**RSS2B018-K**	NOR / CITY Switch	(T)
S2	**RSH1A041-U**	REV / FWD Switch	(T)
S5	**RSH1A041-U**	Motor Switch	(T)
JACK			
J1	**RJJ34TK02-C**	Headphones Jack	(T)

NOTES:

BLK.....Black
BLU.....Blue
BRN.....Brown
GRY.....Gray
GRN.....Green
L.BLU.....Light Blue
NIL.....No Color Mark
ORG.....Orange
PNK.....Pink
RED.....Red
SLD.....Shield Wire
VLT.....Violet
WHT.....White
YEL.....Yellow

■REPLACEMENT PARTS LIST (CABINET, ACCESSORIES, PACKING AND JIG/TOOL, MECHANISM)

Notes:

1. (T) Indicates parts that are supplied **TAMACO**
2. (M) Indicates parts that are supplied **MESA**
3. The reference number SA represent the grease tool usea for unit.

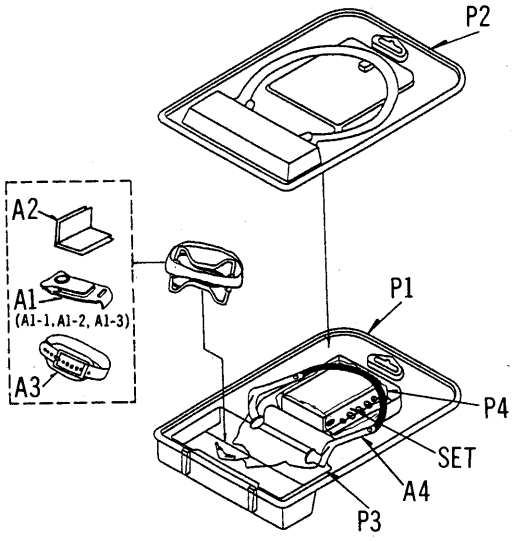
Ref No.	Parts No.	Parts Name & Description	Values & Remarks
CABINET PARTS			
K1	**RKMT0021-H**	Middle Chassis	(T)
K2	**RFKKQSW45VP**	Rear Cabinet Ass'y	(T)
K3	**RFKLQSW35VPY**	Cassette Cover Ass'y(Yellow)	(T)
K3	**RFKLQSW35VPA**	Cassette Cover Ass'y(Blue)	(T)
K4	**RFKNQSW45VP**	Lock Knob Ass'y	(T)
K5	**RMNT0030**	LCD Angle	(T)
K6	**RSQT0006**	Electric Gum	(T)
K7	**RJBT0072A**	FPC PWB	(T)
K8	**ZA06SW45VP**	PCB. Shield Ass'y	(T)
K9	**RMAT0023**	Lock Angle	(T)
K10	**XTNR14+4GFZ**	Screw	(T)
K11	**RHDT0010**	Screw	(T)
K12	**RGWT0009-K**	Volume Knob	(T)
K13	**RMRT0004-X**	Volume Connect Piece	(T)
K14	**RMGT0021-H**	HP/VR "0" Link	(T)
K15	**XTNR14+45GFZ**	Screw	(T)
K16	**XTNR2+6GW**	Screw (Lock Knob)	(T)
K17	**RMRT0023-H1**	Rotate Lever	(T)
K18	**RMGT0022-D**	Resistant Link Gum	(T)
K19	**RMGT0009-K**	Lock "0" Link	(T)
K20	**RGQT0022-K**	HP Jack Cover Gum	(T)
K21	**RKKT0014-H**	Battery Cover	(T)
K22	**RMBT0004**	Spring	(T)
K23	**RMCT0007**	Tape Spring	(T)
K24	**RGVT0029-H**	FM Sens Knob	(T)
K25	**RHD003TZA**	Screw (Deck)	(T)
K26	**RMAX1055**	Anchor Plate	(T)
K27	**RMGT0005-Y**	Gum	(T)
K28	**RMAX1056**	Tape Supporter Board (L)	(T)
K29	**RMAX1057**	Tape Supporter Board (R)	(T)
K30	**XTNR17+3CFN**	Screw	(T)
K31	**RHDT0009**	Screw	(T)
K32	**RJCT30015**	Battery Terminal (+)	(T)
K33	**RJCT70014**	Battery Terminal (-)	(T)
K34	**RWJT0304080A**	4P Wire	(T)
K35	**RGUT0070-K**	Tape Gum	(T)
K36	**RMZT0011**	PCB Sheet	(T)
K37	**RWJT1105055**	5P Wire	(T)
ACCESSORIES			
A1	**ZA05SW45VP**	Belt Clip Ass'y	(T)
A1-1	**RGQT0023-K**	Belt Clip	(T)
A1-2	**RHDT0006-K**	Belt Clip Lock Screw	(T)
A1-3	**XUC25FY**	"E" Link	(T)
A2 [P]	**RQTT0255-P**	Instruction Book	(T)
A2 [PC]	**RQTT0256-C**	Instruction Book	(T)
A3	**RGQT0018-K**	Head Strap	(T)
A4	**RFEV708P-YY**	Headphones (Yellow)	(T)
A4	**RFEV708P-AY**	Headphones (Blue)	(T)
PACKING MATERIALS			
P1 [P]	**RPNT0198**	Clam Sheel (Front)	(T)
P2 [P]	**RPNT0199**	Clam Sheel (Rear)	(T)
P3 [P]	**RPQT0087**	Pad (Yellow)	(T)
P3 [P]	**RPQT0094**	Pad (Blue)	(T)
P4 [P]	**RPFT0018**	Set Bag	(T)
P5 [PC]	**RPKT0190**	Decoration Box (Blue)	(T)
P5 [PC]	**RPKT0214**	Decoration Box (Yellow)	(T)
P6 [PC]	**RPNT0202**	Pad	(T)
P7 [PC]	**RPFT0016**	Set Bag	(T)
JIG/TOOL			
SA1	**QZZCWAT**	TEST TAPE(Tape Speed etc)	(M)
SA2	**QZZCFM**	TEST TAPE(AZIMUTH/FREQ)	(M)
MEC1	**RAA4302**	MECHA Ass'y	(T)
PCB1	**RFKJQSW35VP**	P.C.B Ass'y	(T)

Ref No.	Parts No.	Parts Name & Description	Values & Remarks
MECHANISM PARTS			
M1	**RXK0222**	Mecha Chassis Ass'y	(T)
M2	**RXL0143-1**	Change Lever Ass'y	(T)
M3	**BFL26NBCWA**	Motor Ass'y	(T)
M4	**RHD14062**	Motor Screw	(T)
M5	**RDG0382**	Change Gear	(T)
M6	**RDG0383**	Idler Gear	(T)
M7	**RDG0384**	Play Gear	(T)
M8	**RDG0385**	FF Gear	(T)
M9	**RML0477**	Friction Lever	(T)
M10	**RME0245**	Friction Lever Spring	(T)
M11	**RHW16018**	Washer (FF Gear)	(T)
M12	**RDG0386**	Shift Gear	(T)
M13	**RMM0172**	Lock Rod	(T)
M14	**RMM0173A**	Stop Rod	(T)
M15	**RMM0174A-1**	Rew Rod	(T)
M16	**RMM0175A**	FF Rod	(T)
M17	**RME0246**	Stop Rod Spring	(T)
M18	**RME0247**	FF Rod Spring	(T)
M19	**RXG0044-1**	Main Gear Ass'y	(T)
M20	**RML0478-1**	FR Lever	(T)
M21	**RML0479**	Dir Lever	(T)
M22	**RME0249**	Head Plate Spring	(T)
M23	**RML0480**	Senser Lever	(T)
M24	**RML0481**	SW. Lever	(T)
M25	**RXF0057**	Flywheel F Ass'y	(T)
M26	**RXF0056-1**	Flywheel R Ass'y	(T)
M27	**RDP0105**	Center Pulley	(T)
M28	**RDV0058**	Belt	(T)
M29	**RHD14061**	Motor Earth Screw	(T)
M30	**RHW11004-1**	Washer(B)	(T)
M31	**RHW12021-1**	Washer(D)	(T)
M32	**RDG0381**	Reel Gear	(T)
M33	**RMA1044A**	Head Plate	(T)
M34	**RMM0171-1**	FR Rod	(T)
M35	**RED0053-1**	Head Block Ass'y	(T)
M36	**RFF0772**	Head Wire Ass'y	(T)
M37	**XQN16+CF35**	Head Base Screw	(T)
M38	**RXL0140-3**	Pinch Arm F Ass'y	(T)
M39	**RXL0142-3**	Pinch Arm R Ass'y	(T)
M40	**RMRT0030-H**	Play Button	(T)
M41	**RMRT0031-H**	FF / REW / STOP / Button	(T)
M42	**RMRT0032-H**	Dir Button	(T)
M43	**RHW10003**	Washer (A)	(T)

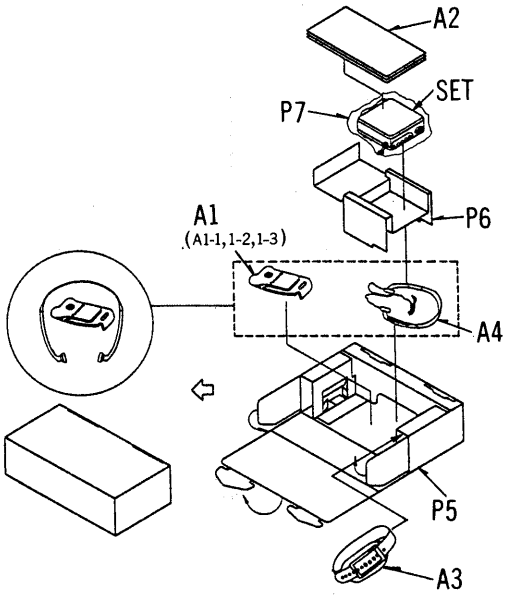
■ MECHANISM PARTS LOCATION

(Front View)

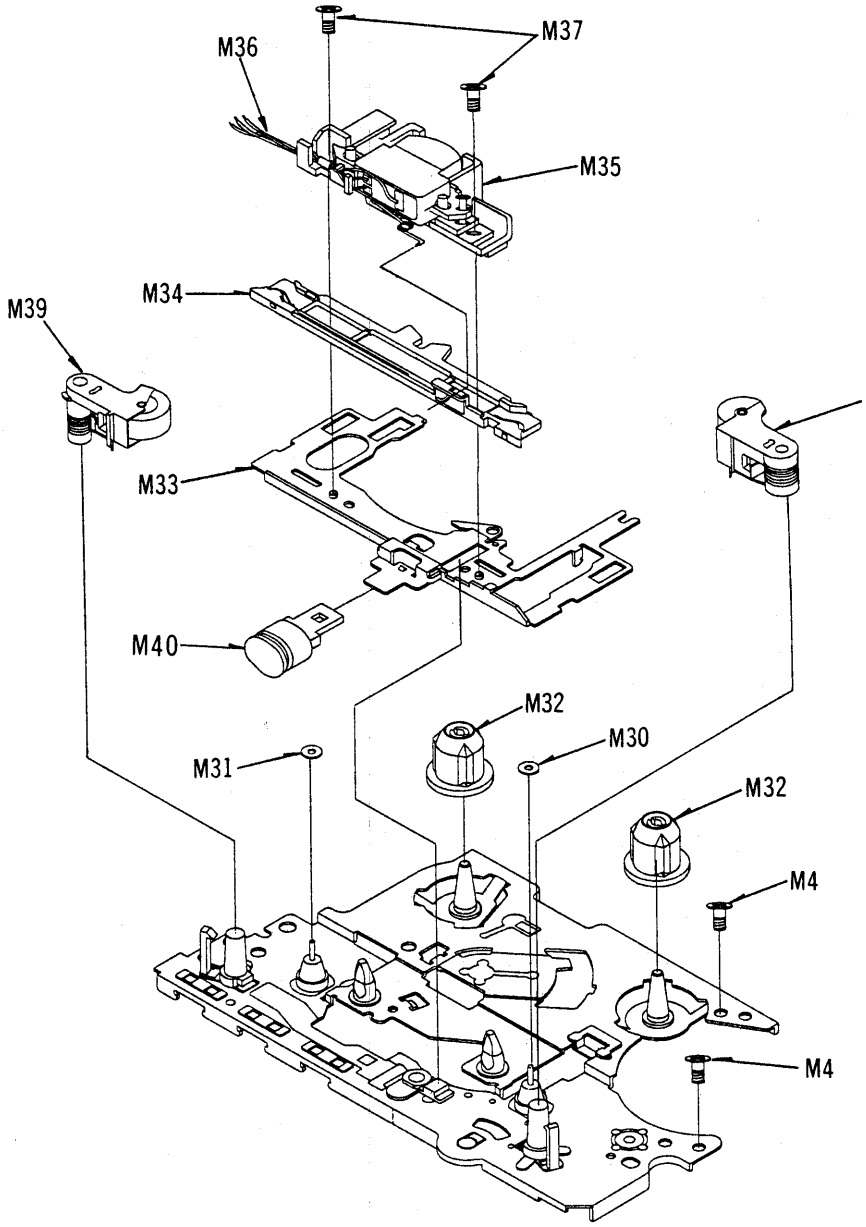
■ PACKAGING



(P ONLY)



(PC ONLY)

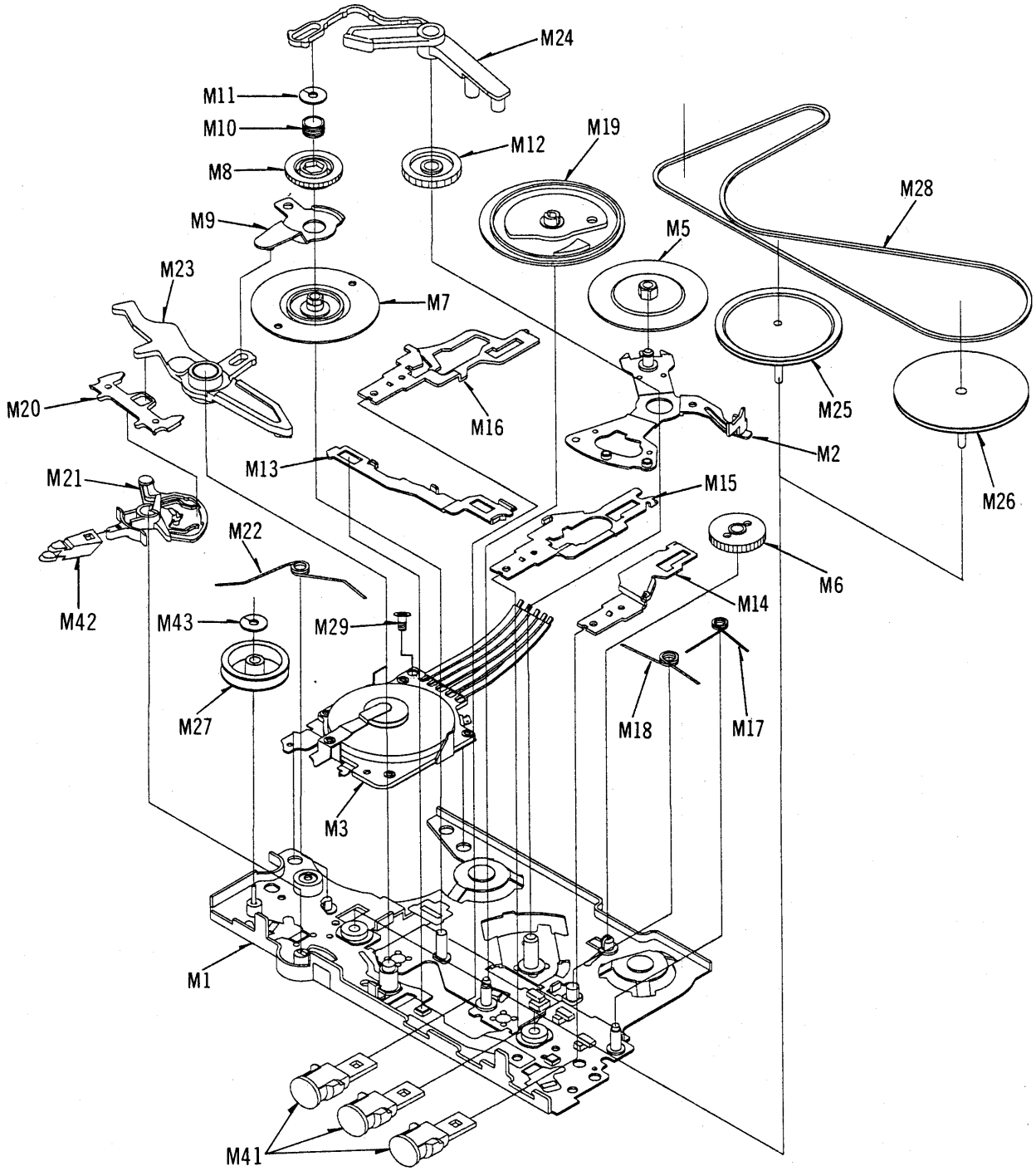


■ SPECIFICATIONS

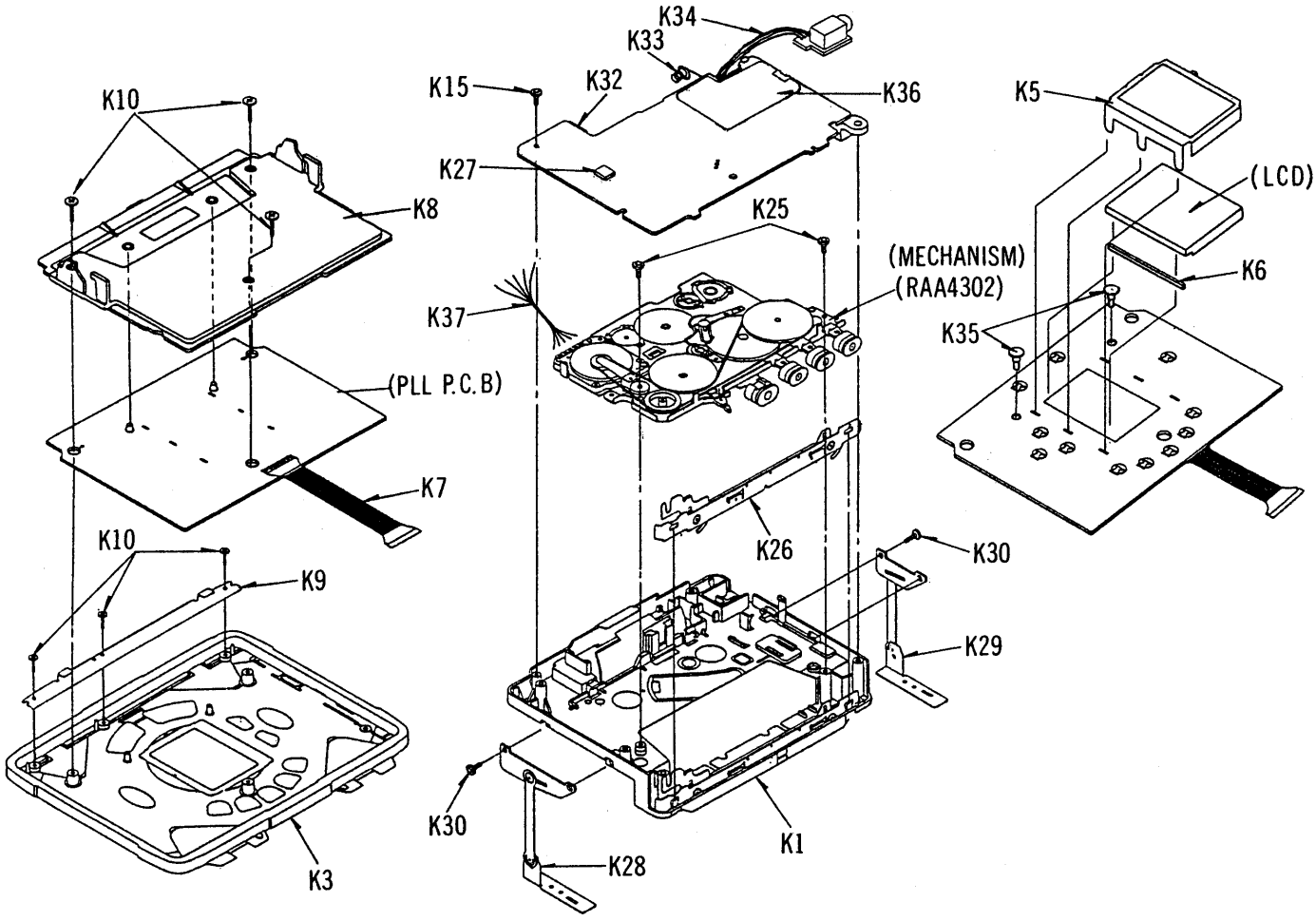
Pressure of Pressure roller	120gr
Wow & flutter	Less than 0.35% (WRMS)
Playback torque	15~30 gr-cm
FF torque	60~120 gr-cm
REW torque	60~120 gr-cm

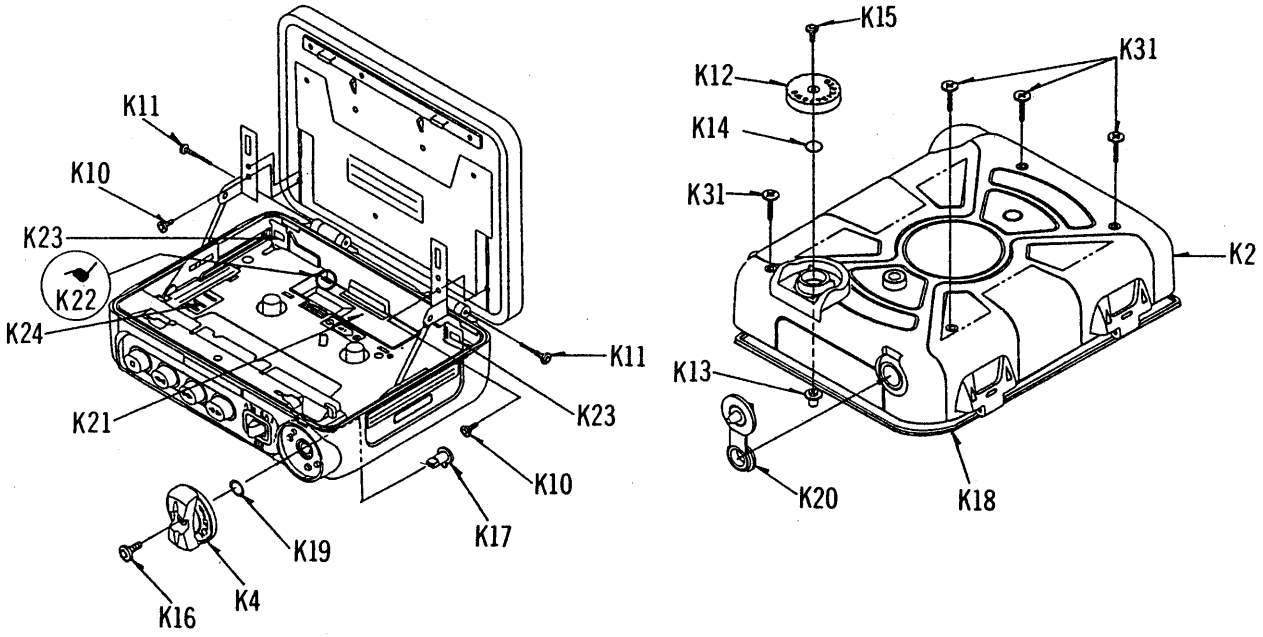
■ MECHANISM PARTS LOCATION

(Rear View)



■ CABINET PARTS LOCATION





■REPLACEMENT PARTS LIST (RESISTORS AND CAPACITORS)

Notes:

1. (T) Indicates parts that are supplied **TAMACO**
2. (M) Indicates parts that are supplied **MESA**

Ref No.	Parts No.	Values & Remarks
RESISTORS		
R1,7,9,14,17,18, 31,37	**ERJ3GEYJ104V**	(M)
R2	**ERJ3GEYJ103V**	(M)
R4,38	**ERJ3GEYJ223V**	
R5	**ERJ3GEYJ4R7V**	(M)
R6,15,19,22,26	**ERJ3GEYJ222V**	(M)
R8,11	**ERJ3GEYJ151V**	(M)
R10,21,35	**ERJ3GEYJ682V**	(M)
R12	**ERJ3GEYJ473V**	(M)
R13	**ERJ3GEYJ472V**	(M)
R16,20	**ERJ3GEYJ154V**	(M)
R24,25	**ERJ3GEYJ393V**	(M)
R27,40	**ERJ3GEYJ331V**	(M)
R28,29	**ERJ3GEYJ2R2V**	(M)
R30	**ERJ3GEYJ332V**	(M)
R32	**ERJ3GEYJ224V**	(M)
R33	**ERJ6GEYJ102V**	(M)
R34	**ERSL20J152U**	(T)
R36	**ERJ3GEYJ562V**	(M)
R39	**ERJ3GEYJ563V**	(M)
R46	**ERJ3GEYJ334V**	(M)
R201	**ERJ6GEYJ103V**	(M)
R202	**ERJ6GEYJ472V**	(M)
R203	**ERJ6GEYJ471V**	(M)
R204	**ERJ3GEYJ224V**	(M)
R206,249	**ERJ3GEYG104V**	(M)
R207	**ERJ6GEYJ331V**	(M)
R209,250	**ERJ3GEYJ134V**	(M)
R210,239	**ERJ6GEYJ474V**	(M)
R212	**ERJ6GEYJ470V**	(M)
R213,251	**ERJ3GEYJ184V**	(M)
R214,252	**ERJ3GEYJ274V**	(M)
R216,223,244	**ERJ6GEYJ684V**	(M)
R217	**ERJ6GEYJ101V**	(M)
R219	**ERJ6GEYJ152V**	(M)
R220	**ERJ6GEYJ272V**	(M)
R221	**ERJ6GEYJ822V**	(M)
R222,238	**ERJ6GEYJ102V**	(M)
R231,232	**ERJ3GEYJ472V**	(M)
R242	**ERJ6GEYJ274V**	(M)
R243	**ERJ6GEYJ104V**	(M)
R246	**ERJ3GEYG683V**	(M)
R247	**ERJ3GEYJ623V**	(T)
R248	**ERJ3GEYG823V**	(T)
R253,254	**ERJ3GEYG564V**	(T)
CHIP JUMPERS		
RJ1~3,201,202, 205,207,208, 209	**ERJ6GEY0R00V**	(M)
RJ4,5,203	**ERJ3GEY0R00V**	(M)

Ref No.	Parts No.	Values & Remarks
CAPACITORS		
C1,2,28,36	**ECUV1H681KBN**	(M)
C3,9,65,66,72,77	**ECUV1E103KBN**	(M)
C4	**ECEA0JKS220**	(M)
C6,10,11,31, 32,39,57	**ECUV1H102KBN**	(M)
C7,15,34	**ECEA0GKS330I**	(M)
C8	**ECUV1H271KCN**	(M)
C12	**ECUV1H331KBN**	(M)
C13	**ECUV1H040CCN**	(M)
C14,22	**ECUV1C223KBN**	(M)
C16,53,58,67	**ECEA0GKS221**	(M)
C17	**ECST1AY225R**	(M)
C18,43,45,49,55, 61,62,68	**ECUV1C104ZFN**	(M)
C19,21,42,60	**ECUV1C224ZFN**	(M)
C23	**ECUV1H100DCN**	(M)
C24,47,50,51,71, 79	**ECUV1C474ZFN**	(M)
C25	**ECUV1H220JCN**	(M)
C26	**ECUV1H391GCV**	(M)
C27,33,35,59,63	**ECUVNC105ZFN**	(M)
C29	**ECUV1C154ZFN**	(M)
C30	**ECEA1EKS4R7**	(M)
C37	**ECST0GY106R**	(M)
C38	**ECUV1H060DCN**	(M)
C40	**ECUV1H030CCN**	(M)
C44	**ECST0GY226R**	(M)
C46	**ECUV1C473KBN**	(M)
C48	**ECUV1H050CCN**	(M)
C52	**RCST0GY475R**	(M)
C56,73	**ECUV1H221KBN**	(M)
C64,81	**ECEA0GKS471**	(M)
C69	**ECUV1C683KBN**	(M)
C70	**ECUV1C823KBN**	(T)
C78	**ECUV1C334ZFN**	(M)
C80	**ECUV1H470KCN**	(M)
C201,209,212, 219,235,238, 239,241,242, 254	**ECUV1H103ZFN**	(M)
C203,210, 213, 217,220,244	**ECUVNC105ZFN**	(M)
C204	**ECST1CY105**	(M)
C205,211	**ECUV1C223KBN**	(M)
C206	**ECST0GY226R**	(M)
C207,214	**ECUV1C224ZFN**	(M)
C208,216	**ECST0GY106R**	(M)
C215	**ECST0GY475R**	(M)
C216	**ECST1AY335RR**	(M)
C221	**ECUV1H102KBN**	(M)
C222	**ECST1CY155RR**	(M)
C225	**ECUV1H120KCN**	(M)
C226,227,228 236	**ECUV1C104ZFN**	(M)
C230	**ECUV1H150KCN**	(M)
C232,245	**ECUV1C334ZFN**	(M)
C246	**ECUV1H221KBN**	(M)
C247	**ECUV1H221KBV**	(M)
C253	**ECST0EY336RR**	(M)

TAMACO Printed in Taiw
980602500 TY/F